



SHEET 1 OF 1

FORM PTO-1449		DOCKET NUMBER		APPLICATION NUMBER		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		NPW 301F		09/839,997		
		APPLICANTS DAVID J. EDLUND and WILLIAM A. PLEDGER				
		FILING DATE April 20, 2001		GROUP ART UNIT 1764		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	6,183,543	2/6/2001	Buxbaum			
↓	6,168,650	1/2/2001	Buxbaum			
AE	5,931,987	8/3/1999	Buxbaum			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
EXAMINER			DATE CONSIDERED			
M. Alexandra Elve			1/30/04			

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DAVID J. EDLUND and WILLIAM A. PLEDGER

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
<i>KE</i>	1,306,221	6/10/1919	Ellis			
	1,782,824	11/25/1930	Hechenbleikner			
	1,848,466	3/8/1932	Edmonds			
	2,132,151	10/4/1938	Fenske et al.			
	2,450,804	10/5/1948	Loy			
	2,609,059	9/2/1952	Benedict			
	2,824,620	2/25/1958	De Rosset			
	3,094,391	6/18/1963	Mader			
	3,144,312	8/11/1964	Mertens			
	3,208,198	9/28/1965	Rubin			
<i>↓</i>	3,336,730	8/22/1967	McBride et al.			
<i>KE</i>	3,338,681	8/29/1967	Kordesch			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
<i>KE</i>	JP 45-14404	5/1970	Japan			X
<i>↓</i>	JP 45-2642	9/1970	Japan			X
<i>KE</i>	JP 1-145302	6/1989	Japan			X

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	English abstract of Japanese Patent No. 432150, 1992.
	English abstract of Japanese Patent No. 513230, 1993.

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AE	3,350,176	10/31/1967	Green et al.			
	3,368,329	2/13/1968	Eguchi et al.			
	3,450,500	6/17/1969	Setzer et al.			
	3,469,944	9/30/1969	Bocard et al.			
	3,520,803	7/21/1970	Iaconelli			
	3,524,819	8/18/1970	Guerrieri			
	3,564,819	2/23/1971	Neulander et al.			
	3,589,171	6/29/1971	Haley			
	3,665,680	5/30/1972	Heuser			
	3,713,270	1/30/1973	Farr et al.			
	3,761,382	9/25/1973	Hammond et al.			
AE	3,782,904	1/1/1974	Fletcher			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
AE	JP 1-145303	6/1989	Japan			X
AE	EP 0434562 A1	6/26/1991	EPO			X
AE	JP 4-163860	6/1992	Japan			X

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	English abstract of Japanese Patent No. 514790, 1993
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<i>KE</i>	3,787,038	1/22/1974	Tesner et al.			
	3,791,106	2/12/1974	Haley			
	3,849,076	11/19/1974	Gryaznov et al.			
	3,881,891	5/6/1975	Goltsov et al.			
	3,881,897	5/6/1975	Faure et al.			
	3,920,416	11/18/1975	Houseman			
	3,955,941	5/11/1976	Houseman et al.			
	3,972,695	8/3/1976	Buckley et al.			
	3,980,452	9/14/1976	Krumm et al.			
	3,982,910	9/28/1976	Houseman et al.			
<i>V</i>	4,003,343	1/18/1977	Lee			
<i>KE</i>	4,003,725	1/18/1977	Bunn, Jr. et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
JP 6-134244	5/1994	Japan			X
WO 97/25649	7/1997	WIPO			X

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	English abstract of Japanese Patent No. 604070, 1994.
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AE	4,056,373	11/1/1977	Rubin			
	4,098,959	7/4/1978	Fanciullo			
	4,098,960	7/4/1978	Gagnon			
	4,127,393	11/28/1978	Timmins et al.			
	4,132,668	1/2/1979	Gryaznov et al.			
	4,197,152	4/8/1980	Palty et al.			
	4,238,403	12/9/1980	Pinto			
	4,254,086	3/3/1981	Sanders			
	4,302,177	11/24/1981	Fankhanel et al.			
	4,315,893	2/16/1982	McCallister			
	4,329,157	5/11/1982	Dobo et al.			
AE	4,349,613	9/14/1982	Winsel			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	WO 97/43796	11/1997	WIPO			X
	WO 99/30806	6/1999	WIPO			X
	WO 99/65097	12/1999	WIPO			X

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	English abstract of Japanese Patent No. 634540.
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<i>AE</i>	4,381,641	5/3/1983	Madgavkar et al.	—	—	
	4,387,434	6/7/1983	Moncrief, Jr. et al.	—	—	
	4,400,182	8/23/1983	Davies et al.	—	—	
	4,417,905	11/29/1983	Banks et al.	—	—	
	4,430,304	2/7/1984	Spurrier et al.	—	—	
	4,444,158	4/24/1984	Yoon	—	—	
	4,468,235	8/28/1984	Hill	—	—	
	4,472,176	9/18/1984	Rubin	—	—	
	4,473,622	9/25/1984	Chludzinski et al.	—	—	
	4,504,447	3/12/1985	Spurrier et al.	—	—	
<i>AE</i>	4,533,607	8/6/1985	Sederquist	—	—	
<i>AE</i>	4,553,981	11/19/1985	Fuderer	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
<i>AE</i>	WO 00/04600	1/2000	WIPO	—	—	X
<i>AE</i>	EP 1065741 A2	1/3/2001	EPO	—	—	X

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English abstract of Japanese Patent No. 710910, 1995.	
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AE	4,567,857	2/4/1986	Houseman et al.			
	4,589,891	5/20/1986	Iniotakis et al.			
	4,642,273	2/10/1987	Sasaki			
	4,644,751	2/24/1987	Hsu			
	4,650,814	3/17/1987	Keller			
	4,654,063	3/31/1987	Auvil et al.			
	4,657,828	4/14/1987	Tajima			
	4,659,634	4/21/1987	Struthers			
	4,670,359	6/2/1987	Beshty et al.			
	4,684,581	8/4/1987	Struthers			
	4,699,637	10/13/1987	Iniotakis et al.			
AE	4,713,234	12/15/1987	Weirich et al.			

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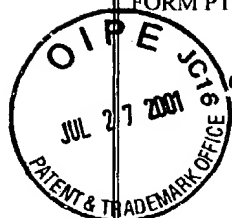
	English abstract of Japanese Patent No. 828793, 1996.
	English abstract of Japanese Patent No. 6176779, 1994.

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AE	4,751,151	6/14/1988	Healy et al.			
	4,781,241	11/1/1988	Misage et al.			
	4,788,004	11/29/1988	Pinto et al.			
	4,810,485	3/7/1989	Marianowski et al.			
	4,838,897	6/13/1989	Amano et al.			
	4,849,187	7/18/1989	Uozu et al.			
	4,865,624	9/12/1989	Okada			
	4,880,040	11/14/1989	Pierson et al.			
	4,904,455	2/27/1990	Karafian et al.			
	4,904,548	2/27/1990	Tajima			
✓	4,946,667	8/7/1990	Beshty			
AE	4,981,676	1/1/1991	Minet et al.			

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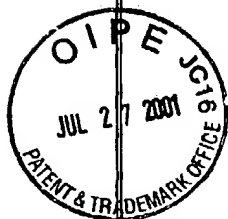
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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

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	English abstract of Japanese Patent No. 7057758, 1995.
	English abstract of Japanese Patent No. 11116202, 1999.

EXAMINER M. Alexandra Eive	DATE CONSIDERED 1/30/04
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U.S. PATENT DOCUMENTS

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AE	5,030,661	7/9/1991	Lywood			
	5,032,365	7/16/1991	Aono et al.			
	5,139,541	8/18/1992	Edlund			
	5,158,581	10/27/1992	Coplan			
	5,205,841	4/27/1993	Vaiman			
	5,215,729	6/1/1993	Buxbaum			
	5,225,080	7/6/1993	Karbachsch et al.			
	5,226,928	7/13/1993	Makabe et al.			
	5,229,102	7/20/1993	Minet et al.			
	5,326,550	7/5/1994	Adris et al.			
✓	5,335,628	8/9/1994	Dunbar			
AE	5,344,721	9/6/1994	Sonai et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

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	English abstract of Japanese Patent No. 57-145276.
	English abstract of Japanese Patent No. 1-145302.

EXAMINER M. Alexandra Elve	DATE CONSIDERED 1/30/04
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
<i>AE</i>	5,354,547	10/11/1994	Rao et al.			
	5,376,167	12/27/1994	Broutin et al.			
	5,382,271	1/17/1995	Ng et al.			
	5,393,325	2/28/1995	Edlund			
	5,395,425	3/7/1995	Brown			
	5,401,589	3/28/1995	Palmer et al.			
	5,417,051	5/23/1995	Ankersmit et al.			
	5,432,710	7/11/1995	Ishimaru et al.			
	Re. 35,002	7/25/1995	Matsubara et al.			
	5,449,848	9/12/1995	Itoh			
	5,458,857	10/17/1995	Collins et al.			
<i>AE</i>	5,498,278	3/12/1996	Edlund			

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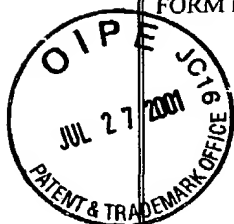
FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS

	English abstract of Japanese Patent No. 1-145303.
	English abstract of Great Britain Patent No. 2,305,186.
	English abstract of German language PCT Patent Application Serial No. WO 00/04600, 2000.

EXAMINER <i>M. Alexandra Elve</i>	DATE CONSIDERED <i>1/30/04</i>
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<i>VE</i>	5,500,122	3/19/1996	Schwartz			
	5,509,942	4/23/1996	Dodge			
	5,516,344	5/14/1996	Corrigan			
	5,518,530	5/21/1996	Sakai et al.			
	5,520,807	5/28/1996	Myrna et al.			
	5,525,322	6/11/1996	Willms			
	5,527,632	6/18/1996	Gardner			
	5,536,405	7/16/1996	Myrna et al.			
	5,580,523	12/3/1996	Bard			
	5,589,599	12/31/1996	McMullen et al.			
<i>✓</i>	5,612,012	3/18/1997	Soma et al.			
<i>AE</i>	5,616,430	4/1/1997	Aoyama			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

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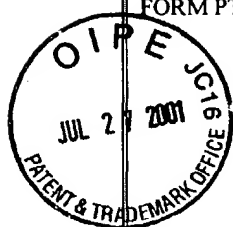
	Adris, A. M., et al., "A Fluidized Bed Membrane Reactor for the Steam Reforming of Methane," The Canadian Journal of Chemical Engineering, Vol. 69, pp. 1061-70 (October, 1991).
	Amphlett, J. C., et al., "On Board Hydrogen Purification for Steam Reformer/PEM Fuel Cell Vehicle Power Plants," Energy Progress X, Proceedings of the 10 th World Hydrogen Energy Conference, Cocoa Beach, Florida, U.S.A., Vol. 3, pp. 1681-90 (June, 1994).

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AC	5,637,259	6/10/1997	Galuszka et al.			
	5,639,431	6/17/1997	Shirasaki et al.			
	5,645,626	7/8/1997	Edlund et al.			
	5,658,681	8/19/1997	Sato et al.			
	5,677,073	10/14/1997	Kawatsu			
	5,679,249	10/21/1997	Fendya et al.			
	5,705,916	1/6/1998	Rudbeck et al.			
	5,712,052	1/27/1998	Kawatsu			
	5,714,276	2/3/1998	Okamoto			
	5,734,092	3/31/1998	Wang et al.			
↓	5,738,708	4/14/1998	Peachey et al.			
AC	5,741,474	4/21/1998	Isomura et al.			

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	Amphlett, J. C., et al., "Simulation of a 250 kW Diesel Fuel Processor/PEM Fuel Cell System," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 8 (September 22-25, 1997).
	Chai, M., et al., "Promotion of Methane Steam Reforming Using Ruthenium-Dispersed-Microporous-Alumina-Membrane Reactor," Chemistry Letters, The Chemical Society of Japan, pp. 41-44 (1993).

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AE	5,741,605	4/21/1998	Gillett et al.			
	5,780,179	7/14/1998	Okamoto			
	5,782,960	7/21/1998	Ogawa et al.			
	5,795,666	8/18/1998	Johnssen			
	5,811,065	9/22/1998	Sterenber			
	5,814,112	9/29/1998	Elliot et al.			
	5,821,185	10/13/1998	White et al.			
	5,833,723	11/10/1998	Kuwabara et al.			
	5,858,314	1/12/1999	Hsu et al.			
	5,861,137	1/19/1999	Edlund			
	5,874,051	2/23/1999	Heil et al.			
AE	5,888,273	3/30/1999	Buxbaum			

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		"Compact, Lightweight Fuel Reformer for Fuel Cells," Argonne National Laboratory/U.S. Department of Energy (July, 1996).
		Edlund, Dr. David and William Pledger, "Development of a Compact and Economical Steam-Reformer for Fuel-Cell Systems," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 6 (September 22-23, 1997).

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AC	5,897,766	4/27/1999	Kawatsu	—	—	
	5,897,970	4/27/1999	Isomura et al.	—	—	
	5,904,754	5/18/1999	Juda et al.	—	—	
	5,932,181	8/3/1999	Kim et al.	—	—	
	5,938,800	8/17/1999	Verrill et al.	—	—	
	5,985,474	11/16/1999	Chen et al.	—	—	
	5,997,594	12/7/1999	Edlund et al.	—	—	
	6,007,931	12/28/1999	Fuller et al.	—	—	
	6,042,956	3/28/2000	Lenel	—	—	
	6,045,772	4/4/2000	Szydlowski et al.	—	—	
✓	6,045,933	4/4/2000	Okamoto	—	—	
AC	6,054,229	4/25/2000	Hsu et al.	—	—	

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	Edlund, David J. and William A. Pledger, "The Practical Use of Metal-Membrane Reactors for Industrial Applications," The 1995 Membrane Technology Reviews, pp. 89-97 (November, 1994).
	Emonts, B., et al., "Compact Methanol Reformer Test for Fuel-Cell Powered Light-Duty Vehicles," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 42 (September 22-25, 1997).

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	6,083,637	7/4/2000	Walz et al.			
	6,103,411	8/15/2000	Matsubayashi et al.			
	6,152,995	11/28/2000	Edlund			
	6,165,633	12/26/2000	Negishi			
	6,171,574	1/9/2001	Juda et al.			
	6,190,623	2/20/2001	Sanger et al.			
	6,221,117	4/24/2001	Edlund et al.			
<i>KE</i>	6,242,120	6/5/2001	Herron			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

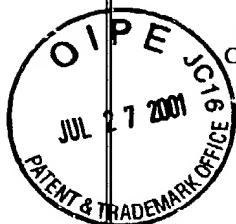
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EXAMINER

M. Alexandra Elve

DATE CONSIDERED

1/30/04

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER	APPLICATION NUMBER
	NPW 301F	09/839,997
	APPLICANTS DAVID J. EDLUND and WILLIAM A. PLEDGER	
	FILING DATE	GROUP ART UNIT
	April 20, 2001	



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.

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OTHER DOCUMENTS

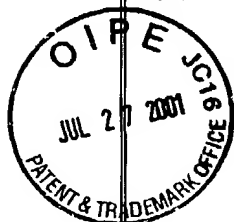
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